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THIRD BIENNIAL REPORT

OF THE

KANSAS
STATE FISH HATCHERY

PRATT, KANSAS



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For the Two Years Ending
JUNE 30, 1920

KANSAS STATE PRINTING PLANT
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KANSAS

UNIVERSITY OF ILLINOIS

STATE FISH HATCHERY

PRATT, KANSAS

FOR THE TWO YEARS ENDING JUNE 30, 1920.

GENERAL OFFICERS:

THE STATE BOARD OF ADMINISTRATION,
State Capitol Building, Topeka.

HENRY J. ALLEN, *Governor.*

WILBUR N. MASON.

H. J. PENNEY.

E. L. BARRIER.

JAMES A. KIMBALL, *Business Manager.*

C. W. MYERS, *Asst. Business Manager.*

E. B. CRONEMEYER, *Asst. Business Manager.*

MALCOLM M. GRAY, *Secretary.*

RESIDENT OFFICER:

ALVA CLAPP, *Superintendent.*

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THE STATE BOARD OF ADMINISTRATION.

MEMBERS.

HENRY J. ALLEN, *Governor.*

H. J. PENNEY, *Vice-chairman*..... Term expires July 1, 1923
WILBUR N. MASON..... Term expires July 1, 1921
E. L. BARRIER..... Term expires July 1, 1921

OFFICERS.

HENRY J. ALLEN, *Governor, ex-officio Chairman*..... Wichita
JAMES A. KIMBALL, *Business Manager*..... Salina
C. W. MYERS, *Assistant Business Manager*..... Topeka
E. B. CRONEMEYER, *Assistant Business Manager*..... Topeka
MALCOLM M. GRAY, *Secretary*..... Topeka

INSTITUTIONS UNDER THE CONTROL OF THE BOARD OF ADMINISTRATION.

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(Branches to Agricultural College.)

FORT HAYS EXPERIMENT STATION,
Hays, Kansas.
H. L. Kent, *Superintendent.*

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Garden City, Kansas.
F. A. Wagner, *Superintendent.*

COLBY EXPERIMENT STATION,
Colby, Kansas.
John J. Bayles, *Superintendent.*

TRIBUNE EXPERIMENT STATION,
Tribune, Kansas.
G. E. Lowery, *Superintendent.*

KANSAS STATE NORMAL SCHOOL,
Emporia, Kansas.
Thos. W. Butcher, *President.*

THE MANUAL TRAINING NORMAL SCHOOL,
Pittsburg, Kansas.
W. A. Brandenburg, *President.*

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W. A. Lewis, *President.*

BELL MEMORIAL HOSPITAL,
Rosedale, Kansas.
Martha Hardin, *Superintendent.*

SCHOOL FOR THE BLIND,
Kansas City, Kansas.
Thomas E. Chandler, *Superintendent.*

SCHOOL FOR THE DEAF,
Olathe, Kansas.
Elwood A. Stevenson, *Superintendent.*

STATE FISH HATCHERY,
Pratt, Kansas.
Alva Clapp, *Superintendent.*

WESTERN UNIVERSITY,
Kansas City, Kansas.
F. J. Peck, *Superintendent.*

INDUSTRIAL AND EDUCATIONAL INSTITUTE,
Topeka, Kansas.
Geo. R. Bridgeforth, *Principal.*

CHARITABLE INSTITUTIONS.

TOPEKA STATE HOSPITAL,
Topeka, Kansas.
M. L. Perry, *Superintendent.*

OSAWATOMIE STATE HOSPITAL,
Osawatomie, Kansas.
F. A. Carmichael, *Superintendent.*

LARNED STATE HOSPITAL,
Larned, Kansas.
L. R. Sellers, *Superintendent.*

STATE HOSPITAL FOR EPILEPTICS,
Parsons, Kansas.
O. S. Hubbard, *Superintendent.*

STATE TRAINING SCHOOL,
Winfield, Kansas.
W. W. Cook, *Superintendent.*

STATE SANATORIUM FOR TUBERCULOSIS,
Norton, Kansas.
C. S. Kenney, *Superintendent.*

STATE ORPHANS' HOME,
Atchison, Kansas.
E. C. Willis, *Superintendent.*

CORRECTIONAL INSTITUTIONS.

KANSAS STATE PENITENTIARY,
Lansing, Kansas.
J. K. Coddling, *Warden.*

KANSAS STATE INDUSTRIAL REFORMATORY,
Hutchinson, Kansas.
Albert S. Bigelow, *Superintendent.*

WOMEN'S INDUSTRIAL FARM,
Lansing, Kansas.
Mrs. Julia B. Perry, *Superintendent.*

BOYS' INDUSTRIAL SCHOOL,
Topeka, Kansas.
W. P. MacLean, *Superintendent.*

GIRLS' INDUSTRIAL SCHOOL,
Beloit, Kansas.
Miss Etta Joe McCoy, *Superintendent.*

TRANSMITTAL.

Allen, Governor of Kansas:
in conformity with the law, to
my biennial report, for the two
9, and June 30, 1920.

pectfully, ALVA CLAPP,
ate Fish and Game Warden.

Italian finance, the development of. The
consolidation of the floating debt
The Victor's loan Roma 1927

30 Apr. 28

G. Director

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To review report.
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LETTER OF TRANSMITTAL.

To His Excellency, Henry J. Allen, Governor of Kansas:

DEAR SIR—I have the honor, in conformity with the law, to submit for your consideration, my biennial report, for the two fiscal years ending June 30, 1919, and June 30, 1920.

Very respectfully, ALVA CLAPP,
State Fish and Game Warden.

SUPERINTENDENT'S REPORT.

FISH DISTRIBUTION.

In the two years from June 30, 1918, to June 30, 1920, forty carloads of fish were distributed on applications filed with the department—a total of 440,000, not including gold fish.

About 15,000 were delivered from the Hatchery to parties who called for them. No "fry" are put out. Practically all fish put out are a year old.

PERMANENT IMPROVEMENTS.

Many permanent improvements have been made, the cost of which can be only estimated, the work being done by the regular employees of the Hatchery, with some additional help at times.

The water-supply pipe line, which was in very bad shape, has been thoroughly repaired at an expense of about \$1,900 for material and outside labor. About 650 lineal feet of cement walks have been laid around the cottages and ponds, and cement floors laid in four garages. A fish sorting and hardening house, which had been built but never completed for use, has been floored, drained and plumbed, and is now in use. A partly built cottage has been completed, supplied with water, light and sewer, and is now occupied. A seventy-five-ton ice house has been built, partly out of old material. About a fourth of the distributors on the Hatchery have been rebuilt, which will result in a great saving of fish. A retaining wall 325 feet long and about 5 feet deep has been built on two sides of pond No. 83, which enables us to use water from the so-called new Hatchery, across the street in the old Hatchery. Broken sewers have been dug up and relaid and some new sewers constructed. The heating plant has been overhauled and drained. A fine, large drinking fountain has been placed in the aquarium building and is much appreciated by visitors. A big flagpole has been erected in front of the administration building, and many trees and shrubs planted and flower beds made. Considerable fencing has been salvaged from places where it had washed into the river, and placed where much needed. The fish car has been repainted and refinished throughout; elevated tanks have been installed, enabling it to carry a twenty-four-hour supply of water. Specially made valves have been installed in the fish tanks on the car, whereby one man now does the work of two. A new electrically driven centrifugal pump has been placed in the power house. Water can now be pumped during the summer months with electricity instead of steam, thus reducing our fuel bill almost one-half.

An underground gasoline filling station has been installed, largely assembled from old materials. Some buildings have been repainted outside and refinished inside. Many pond banks have been strengthened and a hundred turtle traps built. A brood pen for wild ducks and geese

has been constructed, and seven wild geese reared. About sixty wild mallard ducks were hatched, but only twelve raised, the rest being killed by vermin. From only two pheasant hens remaining on the Hatchery in confinement, one of which died early in the season, nine pheasants were reared. We have set our mark at 100 next year. We have no room for game breeding, but are utilizing what we have.

ACHIEVEMENTS.

The following constitute the five most significant achievements for this institution, in the order of their importance:

1. Repairing of the twenty-one-inch pipe line which furnishes the Hatchery with water. The line was in very bad condition, allowing only about one-half of its capacity to reach the Hatchery, the rest being lost through leaks. The original estimate for the cost of repairs was \$6,000, but the work was completed in a very satisfactory manner with the expenditure of only \$1,931.37.
2. The installation of an adequate lighting system for the buildings and premises. A pole line was erected, connecting the Hatchery and the city of Pratt, and electric current is furnished by that city at a very moderate rate. All buildings were lighted, and twenty ornamental white-way poles were placed in advantageous positions on the premises surrounding the buildings. These add very much to the attractiveness of the institution. Also the advent of the electric power will serve as a fuel saver during the summer months by doing away with the necessity of using the steam power plant for pumping and minor purposes.
3. The building of a concrete retaining wall around one of the ponds, on what is known as the new Hatchery, which will enable the water from this part of the Hatchery to be carried to the ten ponds of the old Hatchery, thereby obtaining a much better quality of water for these ponds, and doing away with the necessity of the continuous use of the old millrace which has heretofore supplied these ponds.
4. The construction of a sixty-foot concrete chimney for the power plant.
5. The installation of storage tanks in the fish car, which will allow a twenty-four-hour supply of fresh water to be carried. This will enable the delivery of fish to many districts in the state which have been difficult of access on account of the poor condition of water at points en route.

STATISTICAL INFORMATION.

REPORT OF HUNTERS' LICENSES FOR THE TWO FISCAL YEARS ENDING
JUNE 30, 1919, AND JUNE 30, 1920.

Figures taken from reports of county clerks.

	FISCAL YEAR ENDING JUNE 30, 1919.		FISCAL YEAR ENDING JUNE 30, 1920.	
	<i>Sold.</i>	<i>Issued to soldiers.</i>	<i>Sold.</i>	<i>Issued to soldiers.</i>
Allen	505	30	494	220
Anderson	46	2	33	10
Atchison	594	26	741	210
Barber	127	0	125	45
Barton	346	8	681	209
Bourbon	121	14	141	98
Brown	546	12	451	61
Butler	720	14	720	170
Chase	152	3	158	61
Chautauqua	54	1	115	25
Cherokee	629	7	745	66
Cheyenne	9	1	41	5
Clark	43	0	45	9
Clay	190	20	148	78
Cloud	121	8	222	99
Coffey	36	4	52	29
Comanche	26	0	19	6
Cowley	473	16	662	155
Crawford	1,149	34	1,480	356
Decatur	6	0	14	22
Dickinson	377	8	431	121
Doniphan	448	7	457	108
Douglas	452	38	437	286
Edwards	79	0	104	16
Elk	69	1	93	33
Ellis	78	0	75	33
Ellsworth	143	1	225	66
Finney	37	0	86	28
Ford	162	12	249	62
Franklin	320	11	216	85
Geary	363	34	426	181
Gove	15	0	19	6
Graham	28	0	95	5
Grant	7	0	4	11
Gray	30	1	24	25
Greeley	8	1	3	2
Greenwood	388	5	252	89
Hamilton	46	0	27	16
Harper	47	0	92	21
Harvey	524	40	514	153
Haskell	14	1	6	0
Hodgeman	39	3	39	29
Jackson	104	3	91	44
Jefferson	83	2	180	66
Jewell	24	0	41	11
Johnson	233	4	263	86
Kearny	38	5	34	17
Kingman	94	8	198	49
Kiowa	35	1	37	10
Labette	480	11	526	393

Kansas State Fish Hatchery.

	FISCAL YEAR ENDING JUNE 30, 1919.		FISCAL YEAR ENDING JUNE 30, 1920.	
	<i>Sold.</i>	<i>Issued to soldiers.</i>	<i>Sold.</i>	<i>Issued to soldiers.</i>
Lane	2	0	21	1
Leavenworth	283	62	416	307
Lincoln	86	0	71	27
Linn	86	3	139	20
Logan	42	1	36	10
Lyon	266	9	340	198
Marion	395	6	457	160
Marshall	209	7	285	90
McPherson	421	15	327	130
Meade	59	1	78	40
Miami	214	12	251	94
Mitchell	90	3	96	31
Montgomery	550	23	795	389
Morris	97	5
Morton	13	0	7	1
Nemaha	53	5	97	24
Neosho	312	4	373	55
Ness	19	2	32	17
Norton	12	0	297	56
Osage	101	5	88	16
Osborne	37	3	97	25
Ottawa	101	10	87	55
Pawnee	235	26	210	79
Phillips	49	0	285	65
Pottawatomie	266	4	226	86
Pratt	234	10	335	120
Rawlins	7	0	5	6
Reno	646	21	669	...
Republic	65	7	69	24
Rice	251	8	291	105
Riley	495	21	423	341
Rooks	105	1	155	26
Rush	45	4	72	11
Russell	32	2	45	14
Saline	436	16	334	81
Scott	32	0	51	37
Sedgwick	1,549	52	1,517	384
Seward	39	0	36	5
Shawnee	2,181	134	2,035	928
Sheridan	25	0	38	17
Sherman	97	11	120	54
Smith	18	2	88	35
Stafford	220	2	178	71
Stanton	3	0	0	0
Stevens	1	0	2	0
Sumner	331	2	457	48
Thomas	27	0	22	0
Trego	25	3	51	30
Wabaunsee	139	10	129	53
Wallace	37	1	21	1
Washington	86	5	87	20
Wichita	4	0	6	5
Wilson	768	10	639	62
Woodson	74	9	64	36
Wyandotte	2,919	28	3,559	876
Totals	25,497	962	28,940	9,352

HUNTERS' LICENSES SOLD TO NONRESIDENTS.

	<i>Number sold.</i>	<i>Amount to state.</i>
Fiscal year ending June 30, 1919.....	2	\$30
Fiscal year ending June 30, 1920.....	7	105

CONVICTIONS SECURED FOR THE VIOLATIONS OF THE FISH AND GAME LAWS.

	Violations.	Fines.
Hunting or trapping without license.....	38	\$190
Hunting or trapping out of season.....	7	40
Illegal fishing	12	65
Total	57	\$295

CONFISCATIONS.

Fish traps	4
Illegal seines	3
Hoop nets	1
Total	8

PERMITS ISSUED DURING TWO FISCAL YEARS.

To use three-inch-mesh seine.....	52
For scientific and propagative purposes.....	18
To maintain a skunk farm.....	16
To maintain an opossum farm.....	1
To ship game birds.....	2
Total	89

VALUE OF STATE PROPERTY USED.

Shown by the audit of J. E. Caton, State Accountant, April 18, 1919.

Lands (187.69 acres).....	\$17,256.10
Structures and annexed fixtures.....	100,475.73
Materials and equipment.....	13,073.75
Total	\$131,705.58
Since that time permanent improvements have been made by contract as follows:	
New 60-foot concrete chimney at power house.....	1,625.00
Electric current and fixtures supplied to all buildings, including twenty white-way poles on grounds.....	7,353.76
Total value	\$140,684.34
Alfalfa sold and money deposited in the First National Bank, Pratt, Kan...	254.00

FINANCIAL STATEMENT.

On hand July 1, 1918.....	\$20,000.00
Total expended, year ending June 30, 1919.....	17,715.33
Balance on hand June 30, 1919.....	\$2,284.67
On hand July 1, 1919.....	\$29,943.42
Total expended, year ending June 30, 1920.....	29,924.14
Balance on hand June 30, 1920.....	\$19.28

STATE DEPUTY FISH AND GAME WARDENS.

ALLEN. J. P. Frederickson, J. E. Williams, N. J. Crowell, Iola; Jesse D. Bennett, S. M. Knox, Humboldt; J. O. Nyman, A. D. Jordan, Savonburg; E. E. Kalm, La Harpe.

ANDERSON. Wm. Cornell, Welda.

ATCHISON. Arch Gragg, Lancaster.

BARTON. Geo. J. Klein, Ellinwood.

BOURBON. John R. Stone, W. H. Huttanus, Fort Scott.

BROWN. Bert L. Smith, Fairview; Jesse M. Evans, Horton; Frank L. Frazey, Hiawatha.

BUTLER. Isaac Farrar, Leon.

CHAUTAUQUA. C. D. Deering, Niotaze; W. Cecil Jones, Cedar Vale.

CHEROKEE. Walter L. Cundiff, Columbus; W. G. Staton, Wm. Blythe, Fred Nichols, Charles R. Jones, Van Cavanaugh, Baxter Springs; Harvey A. Scott, Harvey C. Crandall, Howard A. Welch, Riverton.

CLAY. Charles Wingrove, Clay Center; L. C. Jackson, Broughton; Harry W. Stoneback, Morganville.

- CLOUD. F. B. Hanson, Concordia; Ivan Head, Clyde.
 COFFEY. Lee R. Hall, Burlington.
 CRAWFORD. H. Reed, Mulberry; F. A. Burger, Walnut; Elmer Bosler, Lawrence
 Brunetti, Cherokee; S. L. Kuder, McCune; G. J. Ash, Pittsburg; P. C. Tiffany, Girard.
 DECATUR. C. W. Bainter, Oberlin.
 DONIPHAN. Leroy Sandy, Troy; Frederick Bolsom, Doniphan.
 DOUGLAS. Lathrop B. Read, jr., Lawrence; Charles G. Schlegel, Eudora.
 ELK. Chas. E. Gregory, Howard.
 ELLIS. Frank P. Brown, Ellis.
 ELLSWORTH. Paul R. Warner, Ellsworth.
 FINNEY. George H. Reeve, George Dillen, J. R. McClerkin, Garden City.
 FORD. S. R. Cooper, Ford; Frank J. Cox, Lewis E. Pendleton, Dodge City.
 FRANKLIN. William W. Weaver, Ottawa; Albert Spring, Williamsburg.
 GEARY. M. Mowry, Junction City.
 GRAY. Wm. C. Preston, Ingalls.
 GREENWOOD. Albert E. Griffith, Eureka; John H. Ivey, Fall River.
 HARVEY. C. O. Moore, Sedgwick.
 HODGEMAN. Claude E. Hubbard, Jetmore.
 JOHNSON. E. M. Parker, Wilder; Ellet Dean, Zarah.
 KINGMAN. J. A. Rouse, Cunningham; Dr. Geo. E. Burkett, S. F. Mead, Kingman;
 W. S. De Weese, Nashville.
 LABETTE. Geo. Archer, Parsons.
 LEAVENWORTH. J. E. Williams, Fairmount; Michael Concannon, Lansing.
 LINN. Charles M. Partridge, La Cygne.
 LYON. Dan McGowan, Emporia.
 MARSHALL. Daniel McCarty, Marysville; Chas. J. Watters, Blue Rapids; C. C.
 Buckles, Vermillion; John Howes, Oketo; Charles H. Brice, Irving.
 MCPHERSON. J. F. Kramer, Marquette.
 MIAMI. D. S. Newton, Osawatomie.
 MONTGOMERY. Jas. T. Darling, Cherryvale.
 NEMAHA. Otto A. Kelm, Seneca.
 NEOSHO. Hurley Lowe, Erie; William J. Lankford, Thos. E. Hall, Chanute.
 OTTAWA. Joseph Lee, Kelley Bates, Minneapolis.
 PAWNEE. A. H. Moffet, Larned.
 PHILLIPS. Samuel Martindale, Speed.
 POTTAWATOMIE. Fred Hatfield, St. Marys.
 PRATT. William Baker, P. L. French, Guy E. Vining, R. E. Shaw, Pratt.
 RENO. L. E. Hoffman, Geo. W. Van Horn, Nickerson; Roy I. Smith, Evander L.
 Craig, Hutchinson; L. C. Lauterbach, Pretty Prairie.
 RILEY. J. L. Rollins, Manhattan; L. W. Parsons, Randolph; Frank Lebonebarb,
 Leonardville.
 SEDGWICK. Frank Tullis, W. C. Beck, Wichita.
 SHAWNEE. W. W. Webb, E. C. Arnold, F. W. Tichenor, Topeka; Henry Ogee, North
 Topeka.
 SUMNER. Frank Ford, Caldwell; Archie C. Maness, Wellington.
 THOMAS. G. W. Wilkins, Oakley.
 TREGO. J. F. Schrader, Wa Keeney.
 WABAUNSEE. O. E. Jaenicke, Alma.
 WASHINGTON. Valentine Heck, Hanover.
 WILSON. M. R. Holmberg, Neodesha; Ira J. Kiblinger, Altoona.
 WOODSON. F. W. Schaed, Yates Center; E. B. Moore, Neosho Falls.
 WYANDOTTE. Joe Ruggaber, Guy C. McConnell, Ben Millstead, Harry E. Kiff, Bon-
 ner Springs; J. A. Woulf, Kansas City; H. J. Gosney, Muncie.

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